

## PTO FORM 4/92

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

ATTY DOCKET:

19789-8

SERIAL NO.:

09/356,926

APPLICANT(S):

Wim J. van Ooij, et al.

FILING DATE:

July 19, 1999

GROUP:

1742

FOR: SILANE COATINGS FOR METALS

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Exam Init.		DOCUMENT NUMBER						DATE	NAME	CLASS	SUB CLASS	
MM		2	7	5	1	3	1	4	11/03/54	Keil	117	72
MM		3	0	2	2	1	9	6	12/04/57	Jenkins et al.	117	127
MM		3	2	4	6	6	7	1	04/19/66	Stein et al.	138	109
MM		3	8	1	6	1	5	2	06/11/74	Yates	106	287SE
MM		3	8	7	3	3	3	4	03/25/75	Lee et al.	106	287SE
MM		3	8	7	9	2	0	6	04/22/75	Nestler et al.	706	12
MM		3	9	6	0	8	0	0	06/01/76	Kohl, Jr.	260	328SR
MM		4	0	0	0	3	4	7	12/28/76	Ranney et al.	428	4419
MM		4	0	5	9	4	7	3	11/22/77	Okami	156	308
MM		4	0	6	4	3	1	3	12/20/77	Takiguchi et al.	428	447
MM		4	1	7	9	5	3	7	12/18/79	Rykowski	487	387

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUB CLASS	
MM		2	1	1	0	4	6	1	07/26/94	Canada	_____	_____
MM		0	4	3	5	7	8	1 A2	EPO	_____	_____	
MM		0	5	3	3	6	0	6 A1	EPO	_____	_____	
MM		0	5	7	9	2	5	3 B1	EPO	_____	_____	

## OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

MM	Buchwalter, L.P., et al. Adhesion of polyimides to ceramics: Effects of aminopropyltriethoxysilane and temperature and humidity exposure on adhesion, <i>J. Adhesions Sci. Technol.</i> , Vol. 5, No. 4, pp. 333-343 (1991) (no month)
MM	Henriksen, P.N., et al. Inelastic electron tunneling spectroscopic studies of alkoxy silanes adsorbed on alumina, <i>J. Adhesion Sci. Technol.</i> , Vol. 5, No. 4, pp. 321-331 (1991) (no month)
MM	Hornstrom, S.E., et al., Paint Adhesion and Corrosion of Performance of Chromium-Free Pretreatment of 55% Al-Zn-coated Steel, <i>J. Adhesion Sci. Technol.</i> , Vol. 10, No. 9, pp. 987-990 (1997) 883-904 (1996) (no month)
MM	Hornstrom, S.E., et al., Characterization of Thin Films of Organofunctional and Non-Functional Silanes on 55A1-43, 4Zn-1.6Si Alloy Coated Steel, <i>ECASIA</i> 97, pp. 987-990 (1997) (no month)

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Lathe 5/17/01

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Exam .Init.		DOCUMENT NUMBER							NAME	CLASS	SUB CLASS
		4	2	3	1	9	1	0			
ML		4	2	4	3	7	1	8	Plueddemann	260	29-4R
ML		4	2	4	3	7	1	8	Murai et al.	428	411
ML		4	3	1	5	9	7	0	McGee	428	412
ML		4	4	0	1	5	0	0	Hamada et al.	156	307.5
ML		4	4	0	9	2	6	6	Wieczorek et al.	427	302
ML		4	4	4	1	9	4	6	Sharma	156	307.3
ML		4	4	5	7	9	7	0	Das et al.	428	290
ML		4	4	6	1	8	6	7	Surprenant	524	307.88
ML		4	4	8	9	1	9	1	Chung, deceased	524	377.9
ML		4	5	3	4	8	1	5	Hamada et al.	156	307.5
ML		4	6	1	8	3	8	9	Agodoa	156	307.5
ML		4	6	8	1	6	3	6	Saito et al.	106	287.15

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS
		3	4	4	3	9	2	6A1				
ML		53	3	0	7	6	(B)		06/12/86	Germany	—	—
ML		56	1	6	1	4	7	5	02/02/78	Japan	—	—
ML		58	5	2	0	3	6	(B)	12/11/81	Japan	—	—
ML		60	2	0	8	4	8	0	11/19/81	Japan	—	—
ML		60	8	1	2	5	6		10/21/85	Japan	—	—
ML		60	8	1	2	5	6		05/09/85	Japan	—	—

## OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

ML	Plueddemann, Edwin P., Silane primers for epoxy adhesives, <i>J. Adhesion Sci. Technol.</i> , Vol. 2, No. 3, pp. 179-188 (1988) (no month)
ML	Plueddemann, Edwin P., Reminiscing on Silane Coupling Agents, <i>J. Adhesion Sci. Technol.</i> Vol. 5, No. 4, pp. 261-277 (1991) (no month)
ML	Plueddemann, Edwin P., et al. Adhesion Enhancing Additives for Silane Coupling Agents, 42nd Annual Conference, Composites Institute, The Society of the Plastics Industry, Inc., (February 2-6, 1987)

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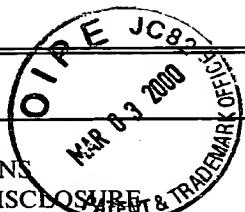
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Latelle

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PTO FORM 4/92

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Exam Init.		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS
ML		4	7	1	9	2	6	2	01/12/88	Pluedemann	525	105
ML		4	8	6	3	7	9	4	09/05/89	Fujii et al.	428	325
ML		5	0	5	1	1	2	9	09/24/91	Cuthbert et al.	106	2
ML		5	0	7	3	1	9	5	12/17/91	Cuthbert et al.	106	2
ML		5	0	7	3	4	5	6	12/17/91	Palladino	428	106
ML		5	1	0	8	7	9	3	04/28/92	van Ooij et al.	427	327
ML		5	2	0	0	2	7	5	04/06/93	van Ooij et al.	428	623
ML		5	2	0	3	9	7	5	04/20/93	Richardson	204	181-1
ML		5	2	1	7	7	5	1	06/08/93	King et al.	427	328
ML		5	2	2	1	3	7	1	06/22/93	Miller	428	273
ML		5	2	9	2	5	4	9	03/08/94	van Ooij et al.	427	256

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS
ML		60	2	1	3	9	0	2	10/26/85	Japan	ROON	
ML		62	7	5	3	8			01/14/87	Japan		
ML		62	5	7	4	7	0		03/13/87	Japan		
ML		63	3	4	7	9	3	(B)	07/12/87	Japan		
ML		63	9	7	2	6	6		04/27/88	Japan		
ML		63	9	7	2	6	7		04/27/88	Japan		

## OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

ML		Pu, Z., et al., Hydrolysis Kinetics and Stability of Bis (Triethoxysilyl) Ethane in Water-Ethanol Solution by FTIR Spectroscopy, <i>Journal of Adhesion Science and Technology</i> (1996) (no month)
ML		Sabata, A., et al., Trends toward a better understanding of the interface in painted metals, <i>Trends in Corrosion Research</i> , 1, pp. 181-193 (1993) (no month)
ML		Sabata, A., et al., The interphase in painted metals pretreated by functional silanes, <i>J. Adhesion Sci. Technol.</i> , Vol. 7, No. 11, pp. 1153-1170 (1993) (no month)
ML		Sabata, A. Et al., TOFSIMS Studies of Cleaning Procedures and Silane Surface Treatments of Steels, <i>Journal of Testing and Evaluation, JTRVA</i> , Vol. 23, No. 2, pp. 119-125 (March 1995)

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*W. Miller* 5/17/01

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MAY 03 2000ATTY DOCKET:  
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ML		5	3	2	2	7	1	3	06/21/94	van Ooij et al.	427	327
ML		5	3	2	6	5	9	4	07/05/94	Sabata et al.	427	327
ML		R	E	3	4	6	7	5	07/26/94	Plueddemann deceased	106	287.1
ML		5	3	6	3	9	9	4	11/15/94	Angeline	222	529
ML		5	3	8	9	4	0	5	02/14/95	Purnell et al.	427	387
ML		5	3	9	3	3	5	3	02/28/95	Bishop	1248	253
ML		5	4	1	2	0	1	1	05/02/95	Morris et al.	524	261
ML		5	4	3	3	9	7	6	07/18/95	van Ooij et al.	427	327
ML		5	4	5	5	0	8	0	10/03/95	van Ooij et al.	427	470
ML		5	4	6	8	8	9	3	11/21/95	Parker et al.	556	427
ML		5	4	7	8	6	5	5	12/26/95	Sabata et al.	428	469
ML		5	4	9	8	4	8	1	03/12/96	van Ooij	428	413

## FOREIGN PATENT DOCUMENTS

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ML		5	-	3	3	2	7	5	(B)	05/19/93	Japan		
ML		6	1	8	4	7	9	2	07/05/94	Japan			
ML		WO	98	3	0	7	3	5	07/16/98	PCT			
ML		WO	99	2	0	6	8	2	04/29/99	PCT			
ML		WO	99	2	0	7	0	5	04/29/99	PCT			

## OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

ML	van Ooij, W. J., et al. Characterization of Films of Organofunctional Silanes by ToF-SIMS, <i>Surface and Interface Analysis</i> , Vol. 20, pp.475-484 (1993) (no month)
ML	van Ooij, W. J., et al. Modifications of the Interface Between Paints and Stainless Steels by Means of an Interphase Crosslinked Organofunctional, Materials Research Society Symposium Proceedings, Vol. 304, pp. 155-160, (1993) (no month)
ML	van Ooij, W. J., et al. Novel Silane-Based Pretreatments of Metals to Replace Chromate and Phosphate Treatment, <i>2nd Annual Advanced Techniques for Replacing Chromium: An Information Exchange</i> , prepared by David S. Viszlay, Concurrent Technologies Corp. NDCEE, Seven Springs Mountain Resort, Champion, PA (November 7-8, 1995) pp. 287-310
ML	van Ooij, W. J., et al. On the Use, Characterization and Performance of Silane Coupling Agents Between Organic Coatings and Metallic or Ceramic Substrates, <i>American Institute of Physics</i> , pp. 305-321 (1996) (no month)
ML	van Ooij, W. J., et al., Silane-Based Pretreatments of A1 and its Alloys as Chromate Alternatives, <i>Aluminium Surface Science Technology</i> , "Elzenveld" Antwerp-Belgium, (May 12-15, 1997)

EXAMINER

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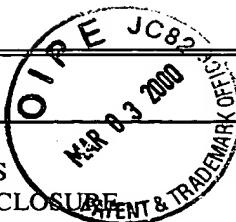
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WJ		5	5	2	0	7	6	8	05/28/96	Crook et al.	156	319
WJ		5	5	3	9	0	3	1	07/23/96	van Ooij	524	188
WJ		5	6	0	3	8	1	8	02/18/97	Brent et al.	204	488
WJ		5	6	0	6	8	8	4	03/04/97	Pettersson et al.	72	41
WJ		5	6	3	3	0	3	8	05/27/97	Ruschau	427	239
WJ		5	6	3	9	5	5	5	06/17/97	Bishop	428	447
WJ		5	7	0	0	5	2	3	12/23/97	Petrole et al.	427	397.8
WJ		5	7	5	0	1	9	7	05/12/98	van Ooij et al.	427	318
WJ		5	7	5	9	6	2	9	06/02/98	van Ooij et al.	427	384
WJ		5	7	8	9	0	8	0	08/04/98	Grimberg et al.	428	379
WJ		5	9	0	7	0	1	5	05/25/99	Sexsmith	524	837

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## OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

WJ	van Ooij, W. J. et al., <i>Silane Coupling Agent Treatments of Metals for Corrosion Protection</i> , Presented at the Fourth International Forum and business Development Conference on Surface Modification, Couplants and Adhesion Promoters, Adhesion Coupling Agent Technology 97, Boston, MA (September 22-24, 1997)
WJ	van Ooij, W. J., et al., <i>Pretreatment of Metals for Painting by Organofunctional Silanes</i> , Extended Abstract of Paper Presented at 1997 International Symposium on Advances in Corrosion Protection by Organic Coatings, Noda, Japan (October 29-31, 1997)
WJ	van Ooij, W. J., et al., <i>Rubber to Metal Bonding</i> , Presented at the International Conference on Rubbers, Calcutta, India (December 12-14, 1997)
WJ	Walker, P., <i>Organosilanes as adhesion promoters</i> , <i>J. Adhesion Sci. Technol.</i> Vol 5, No. 4, pp. 279-305 (1991) (no month)
WJ	Wu, G. L. Et al. <i>Alcoholysis of Chlorosilanes and the Synthesis of Silane Coupling Agents</i> , Inst. Chem., Acad. Sin., Peking, People Rep. China, Hua Hsueh Hsueh Pao (1980) (Abstract Only) (no month)
WJ	Yuan, W., et al., <i>Characterization of Organofunctional Silane Films on Zinc Substrates</i> , Submitted to <i>Journal of Colloid and Interface Science</i> , (August 30, 1996)
WJ	Zhang, B. C., et al., <i>Characterization of Silane Films Deposited on Iron Surfaces</i> , Submitted to <i>Langmuir</i> , First Revision, (May 3, 1996)

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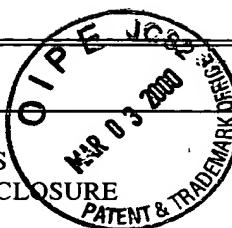
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ML		Abstract of Japanese patent number 62-79732 (10/04/94) 06-279,732 (10/14/94)
ML		Abstract of Japanese patent number 41-6174 (04/08/92) 04-106,174 (4/8/92)
ML		Abstract of Japanese patent number 62-216727 (09/24/87)
ML		Abstract of Japanese patent number 40-40932 (02/17/92) 04-046932 (2/17/92)
ML		Comyn, J., et al., An examination of the interaction of silanes containing carbon-carbon double bonds with aluminum oxide by inelastic electron tunneling spectroscopy, <i>Int. J. Adhesion</i> (1990), 10(1), 13-18 (abstract only) (no month)
ML		Kurth, D.G., et al., Monomolecular layers and thin films of silane coupling agents by vapor-phase adsorption on oxidized aluminum, <i>J. Phys. Chem.</i> (1992), 96(16), 6707-12 (abstract only) (no month)
ML		van Ooij, W. J., Silane-based Metal Pretreatments to Replace Phosphates and Chromates; copy of overhead slides presented at the 3rd Annual Advanced Techniques for Replacing Chromium: An Information Exchange and Technology Demonstration, November 4-6, 1996
ML		Abstract of Japanese patent number 59-185779 (10/22/84)
ML		Abstract of Japanese patent number 07-329104 (12/19/95)
ML		Abstract of Japanese patent number 62-83034 (04/16/87)
ML		Abstract of Japanese patent number 53-232 (01/05/78)

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